

312/ 1
GEOGRAPHY
PAPER 1
2 ¾ Hours

KENYA HIGH SCHOOL

POST MOCK EXAMINATIONS

FORM 4

2021

Kenya Certificate of Secondary Education

INSTRUCTION TO CANDIDATES

This paper consists of **two** sections **A&B**.

Answer **ALL** questions in section A. In section B Answer **QUESTION 6** and **ANY OTHER TWO** questions.

All answers must be written in the answer sheets provided.

SECTION A**Answer ALL questions in this section.**

1. (a) Define weather (2marks)
(b) State five factors considered when siting a weather station. (5marks)
2. (a) State two ways that make it possible for geographers to study the earth's interior. (2marks)
(b) State 3 changes that may occur in a rock after it has undergone metamorphism. (3marks)
3. (a) Differentiate between folding and faulting. (2marks)
(b) Citing an example on each period, state 4 orogenesis periods in fold mountain formation. (4marks)
4. (a) Differentiate between a spring and a well. (2marks)
(b) State three ways by which springs develop. (3marks)
5. Give two ways in which mulching improves soil. (2marks)

SECTION B**Answer question 6 and any other two questions from this section**

6. Study the map of Homabay (1:50,000) sheet 129/2 provided. Answer the following questions.
 - (a) (i) Calculate the area of the part of Olambwe Valley National Reserve shown on the map. (Give your answer in square kilometers). (2marks)
(ii) What is the length of the Homa Bay municipality boundary? (2marks)
(iii) Give six figure grid reference for the secondary trigonometric section on the Ruri Hills. (2marks)
(iv) Draw a rectangle that measures 10cm by 15cm to represent the area enclosed by Eastings 51 and 59 and Northings 33 and 45. On it mark and name the following features. (5marks)
 - Lake Victoria
 - Ranyambala forests
 - Secondary trigonometric station
 - River Ogongo
 - (b) Using evidence from the map, state three functions of Homabay town (3marks)
 - (c) (i) Name three types of vegetation shown on the map. (3marks)
(ii) Identify three settlement patterns found in the area covered by the map. (3marks)
 - (d) Describe the relief of the area covered by the map. (5marks)
7. (a) Define the term vulcanicity (2marks)
(b) Give four characteristics of a composite volcano. (4marks)
(c) Describe how a lava plateau is formed. (4marks)
(d) Explain four negative effects of vulcanicity. (8marks)
(e) You intend to carry out a field study of an area affected by vulcanicity.
 - (i) Give four sources of information that you would use in the preparation for the study (4marks)
 - (ii) Give three factors that would make it difficult for you to collect accurate data during the field study. (3marks)
8. (a) Give three agents of weathering (3marks)
(b) Describe frost action as a process of weathering. (4marks)
(c) Explain how an exfoliation dome is formed. (5marks)
(d) Explain 3 factors that influence the rate of mass wasting. (6marks)

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- (e) State four slow types of mass wasting. **(4marks)**
- (f) Give three positive effects of mass wasting. **(3marks)**
- 9.** (a) (i) State three factors that influence transportation of materials in the sea. **(3marks)**
- (ii) Draw a simple well labeled diagram of a sea wave. **(3marks)**
- (iii) Give three ways in which islands are formed. **(3 marks)**
- (b) Explain the following processes of wave erosion.
- (i) Hydraulic action **(3marks)**
- (ii) Solution **(2marks)**
- (c) Describe the formation of a spit. **(5marks)**
- (d) Explain 3 economic importances of coastal landforms. **(6marks)**
- 10.** (a) State four physical factors that contribute to development of deserts. **(4marks)**
- (b) Give four characteristics of desert landscape. **(4marks)**
- (c) Explain three factors that influence wind transport in the desert. **(6marks)**
- (d) Describe how a deflation hollow is formed. **(4marks)**
- (e) You carried out a field study in a desert landscape.
- (i) State four preparations for your study. **(4marks)**
- (ii) List three water depositional features you identified. **(3marks)**